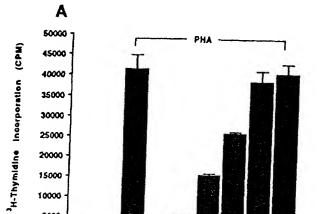
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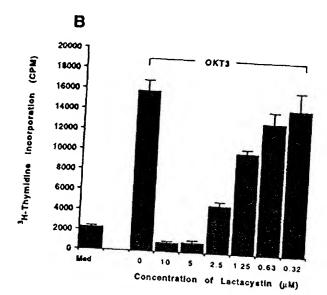
Title USE OF PROTEASOME INHIBITORS FOR TREATING CANCER, INFLAMMATION, AUTOIMMUNE DISEASE, GRAFT REJECTION AND SEPTIC SHOCK Attorney Name Gregory A. Sebald Phone No 612-336-4728
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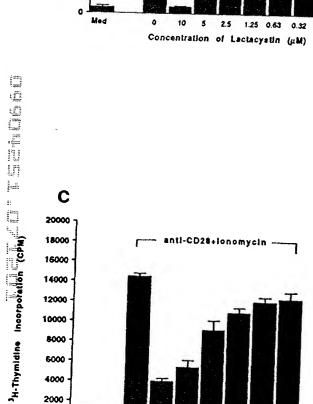


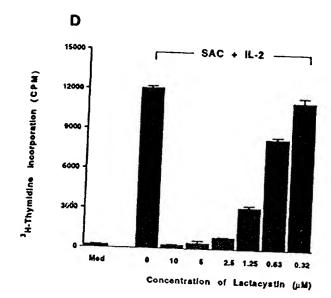
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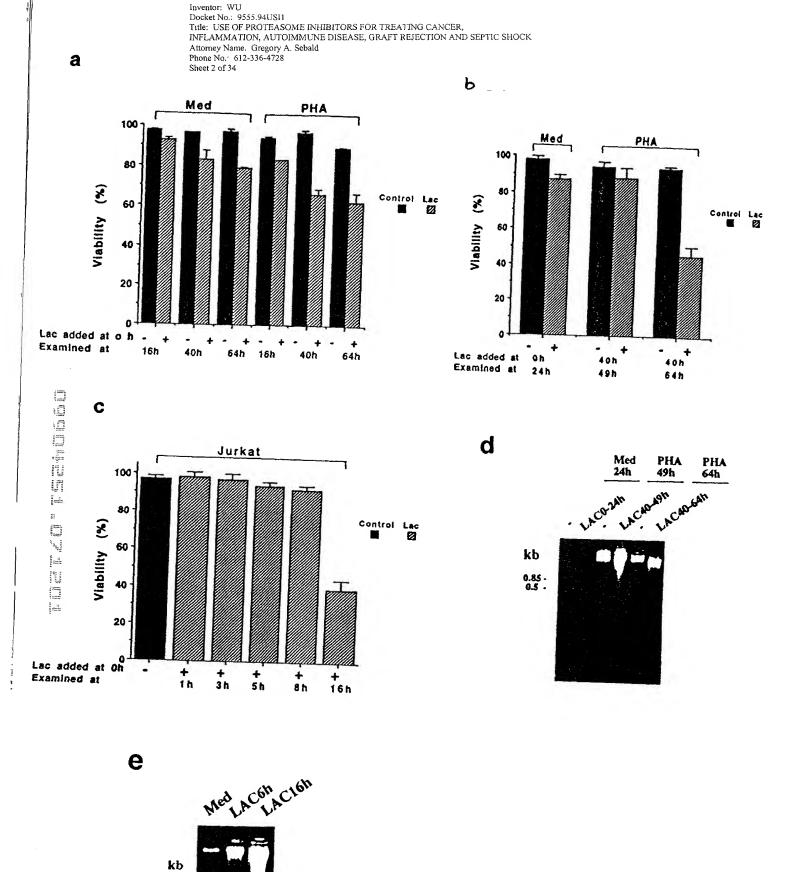
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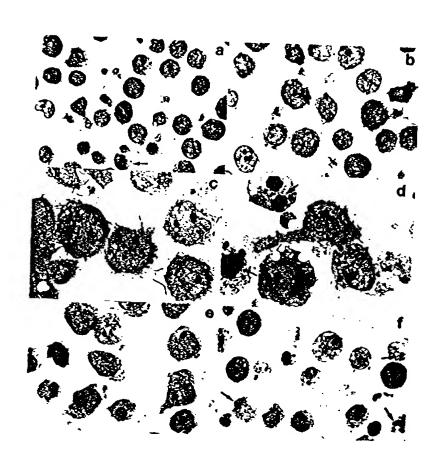






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Title USE OF PROTEASOME INHIBITORS FOR TREATING CANCER,
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Attorney Name Gregory A. Sebald
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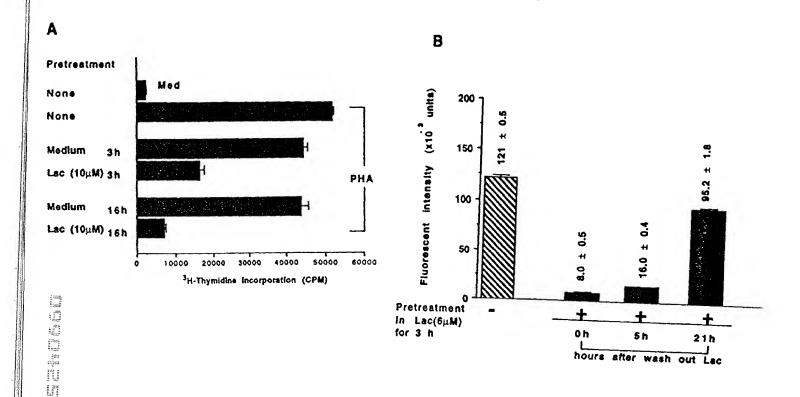
Title: USE OF PROTEASOME INHIBITORS FOR TREATING CANCER, INFLAMMATION, AUTOIMMUNE DISEASE, GRAFT REJECTION AND SEPTIC SHOCK

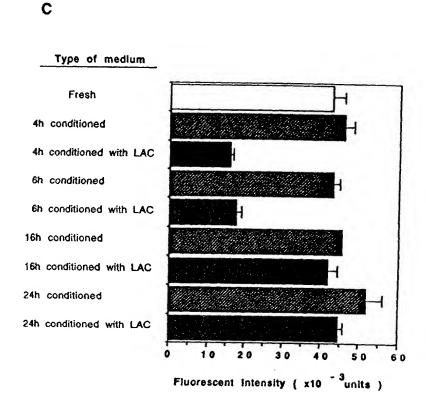
Attorney Name. Gregory A Sebald Phone No: 612-336-4728 Sheet 4 of 34

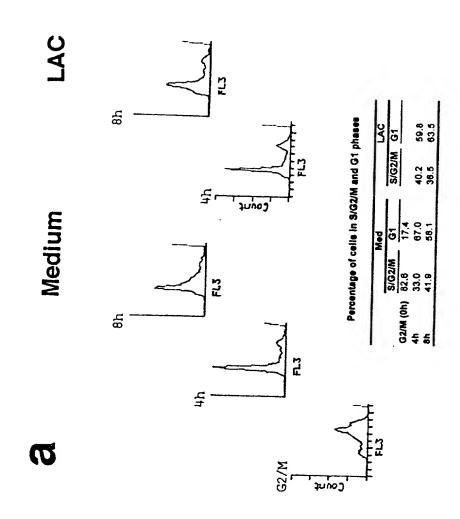
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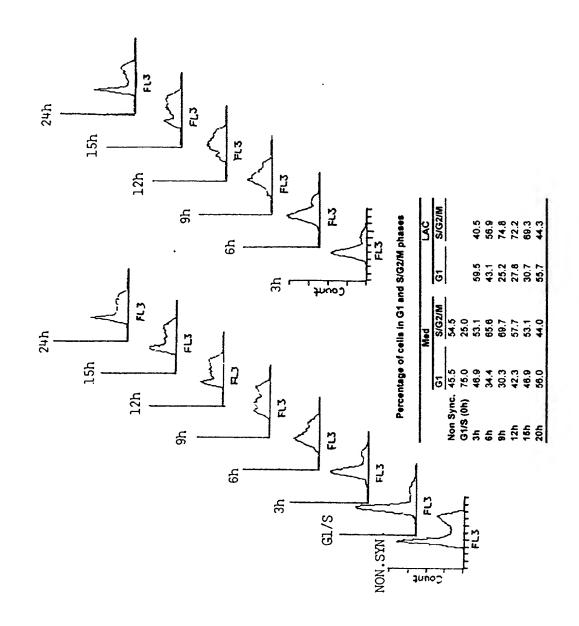




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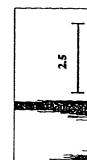
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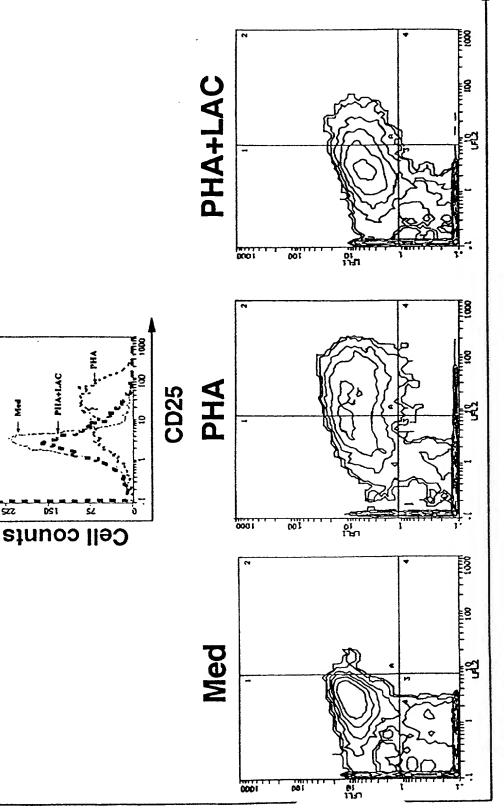
FIGURE 6C

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Phone No.: 612-336-4728
Attoriev Name: Gregory A. Sebald
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Attoriev Name: Gregory A. Sebald

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Inventor: WU

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Pitloney Name: Gregory A. Sebald

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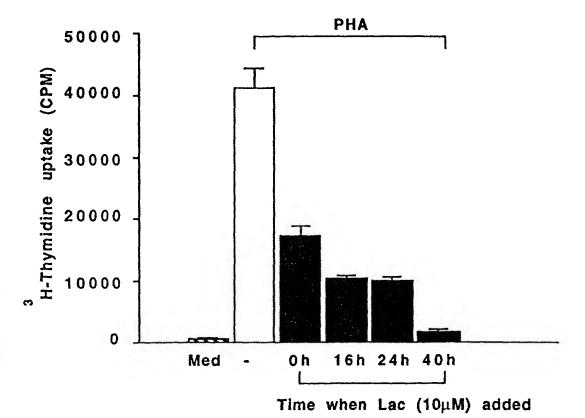
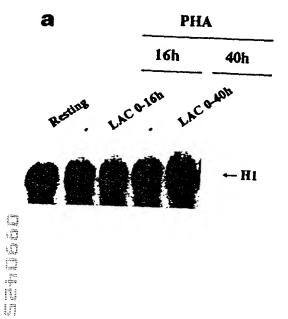
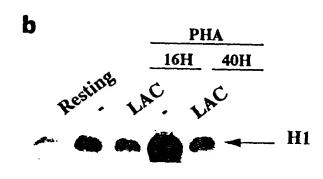


FIGURE 6D

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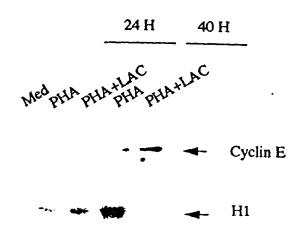


FIGURE 7

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Title. USE OF PROTEASOME INHIBITORS FOR TREATING CANCER, INFLAMMATION, AUTOIMMUNE DISEASE, GRAFT REJECTION AND SEPTIC SHOCK Attorney Name Gregory A. Sebald Phone No 612-336-4728 Sheet 11 of 34

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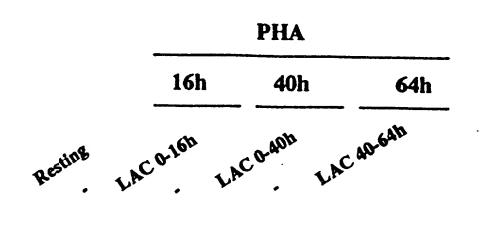
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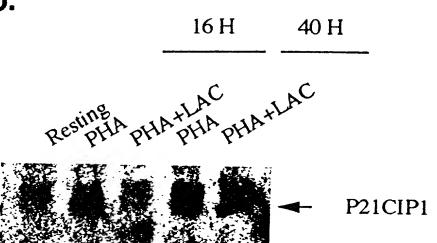
Inventor: WU
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Title: USE OF PROTEASOME INHIBITORS FOR TREATING CANCER,
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a.



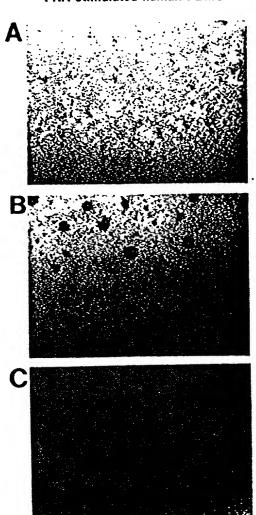
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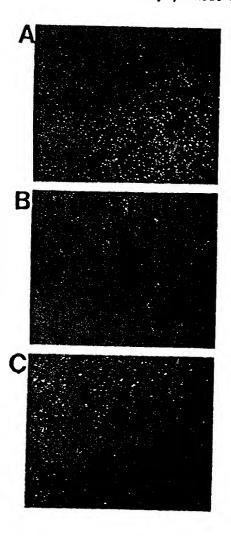
Inventor: WU
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Title. USE OF PROTEASOME INHIBITORS FOR TREATING CANCER,
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Lactacystin inhibits aggregation of PHA-stimulated human PBMC



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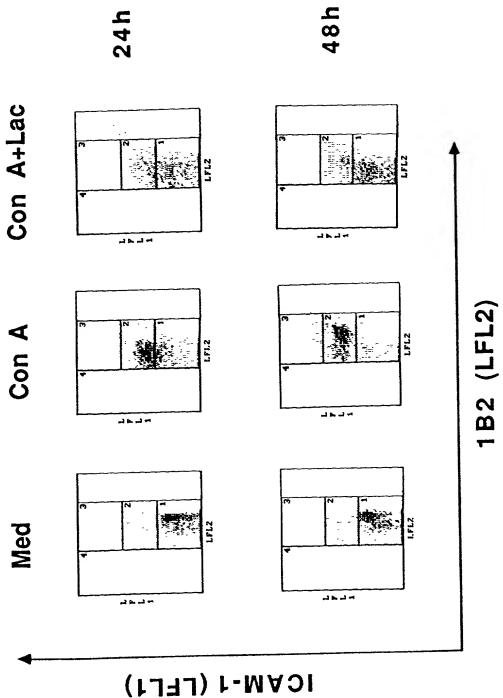
Lactacystin inhibits aggregation of mitogen-stimulated mouse lymph node cells



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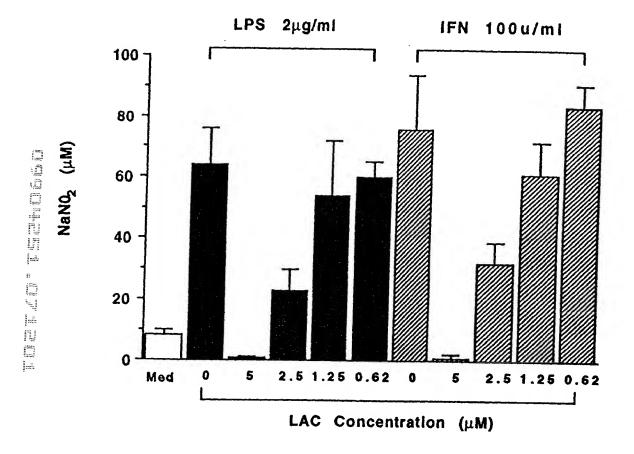
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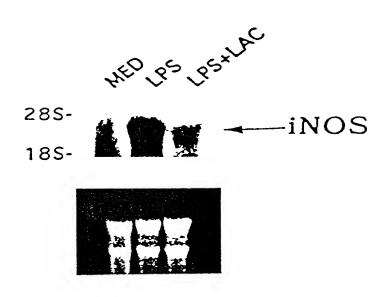
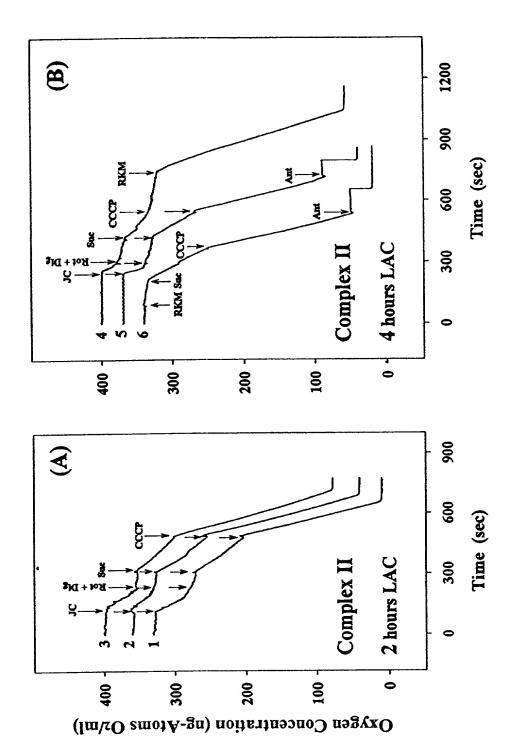


FIGURE 14

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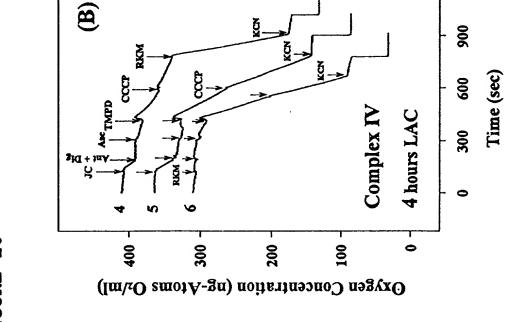
Inventor: WU

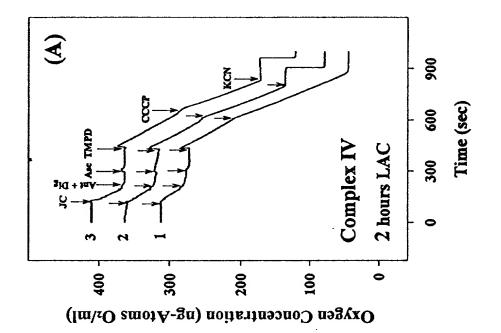
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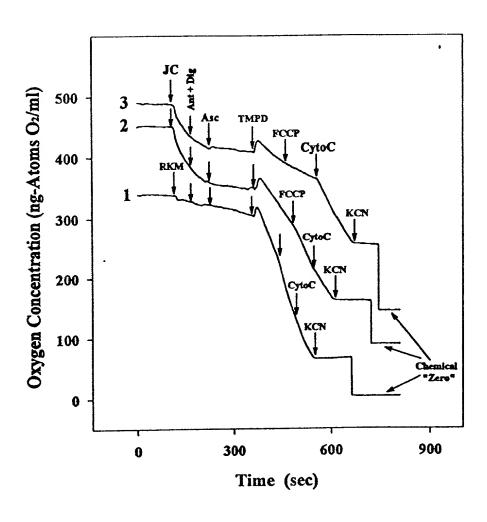




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Autoriev Name: Gregory A. Sobald
Autor

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FIGURE 17



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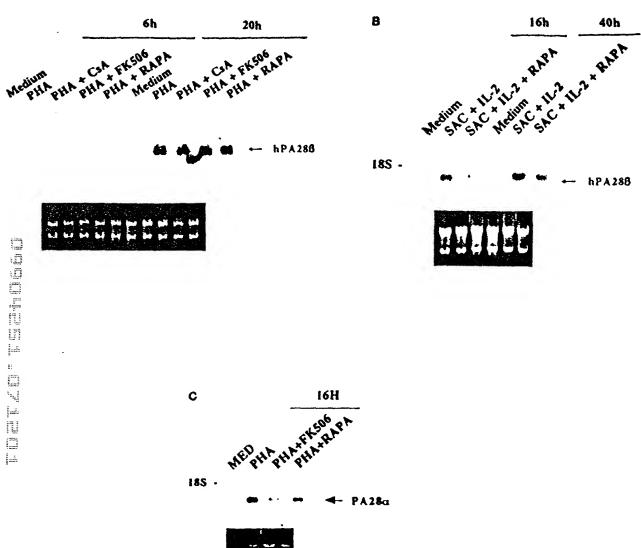


FIGURE 18

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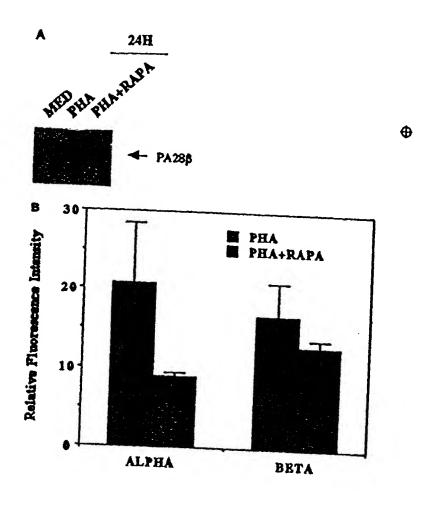


FIGURE 19

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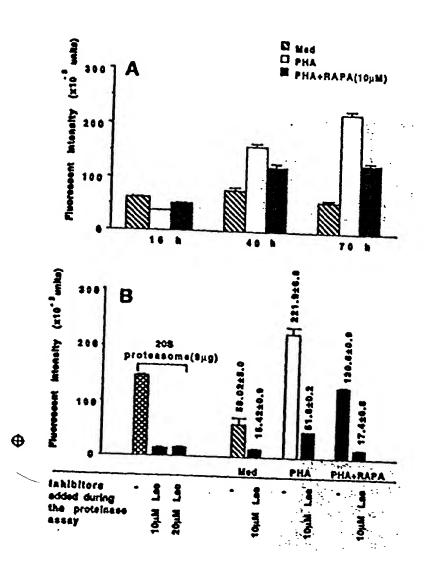
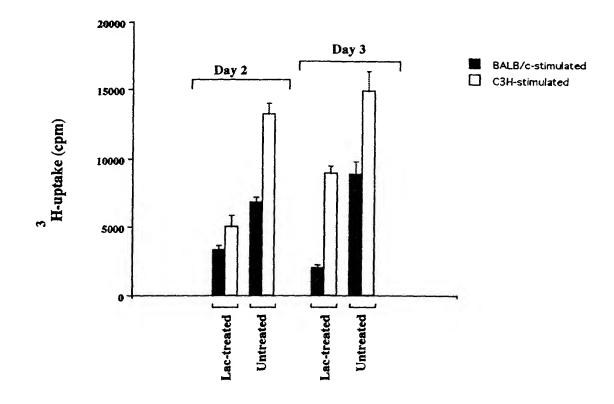


FIGURE 20

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Eliminating Alloantigen-specific Response by a Proteasome Inhibitor



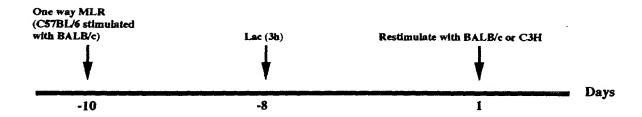


Fig. 21

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Attorney Name: Gregory A. Sebald Phone No · 612-336-4728

Z-VAD.fmk blocks Lactacystin induced apoptosis in Jurkat cell

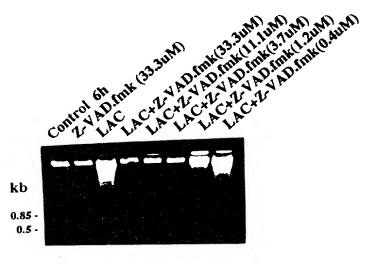
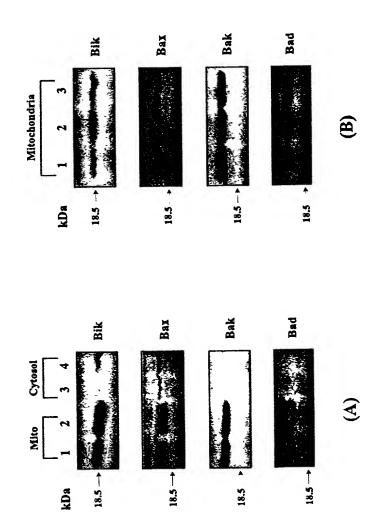
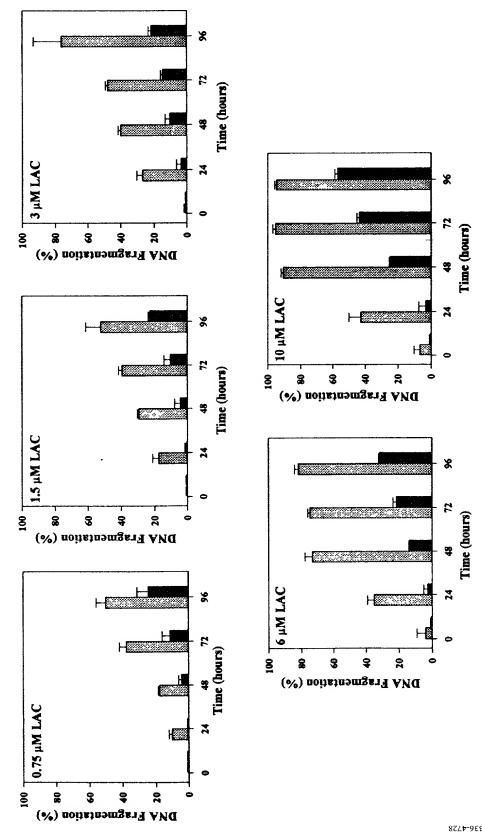


Fig. 22

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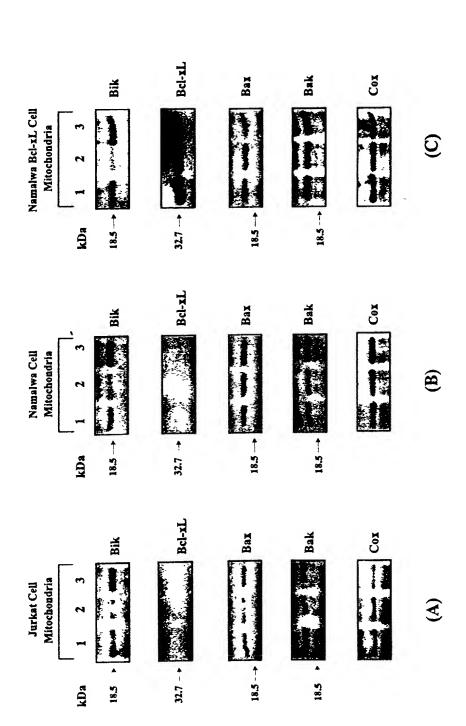


DNA-fragmentation in Namalwa-Control (${\color{red} \square}$) and Namalwa-Bcl X_L (${\color{red} \square}$ cells during Lactacystin (LAC) induced apoptosis.



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DIPEPTIDE BORONIC ACID (DPBA)

Pyz-Phe-boroLeu; Pyz, 2,5-pyrazinecarboxylic acid

LACTACYSTIN

FIGURE 26

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DPBA INHIBITS 20S PROTEASOME ACTIVITY

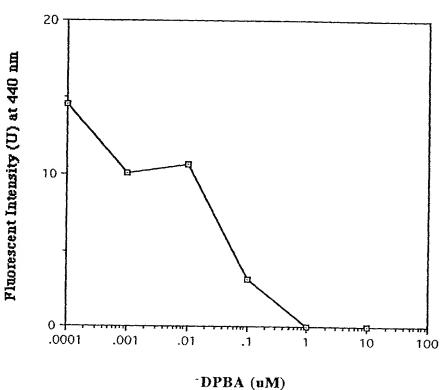


FIGURE 27

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Proteasome Inhibitor DPBA Inhibits Anti-CD3 Stimulated T Cell Proliferation

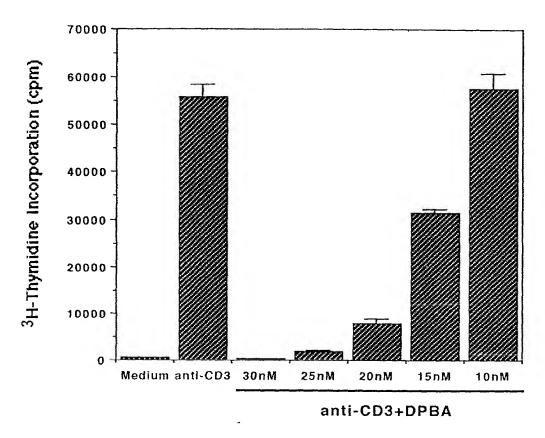
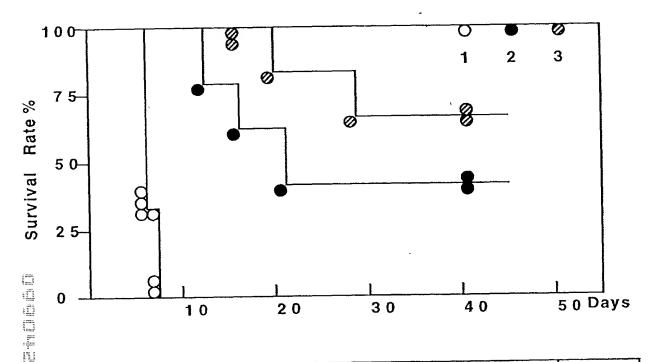


FIGURE 28

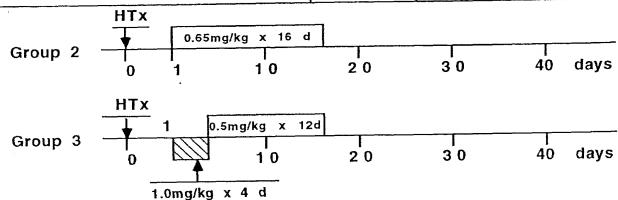
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Proteasome Inhibitor DPBA Prolongs Mouse Heart Allograft Survival



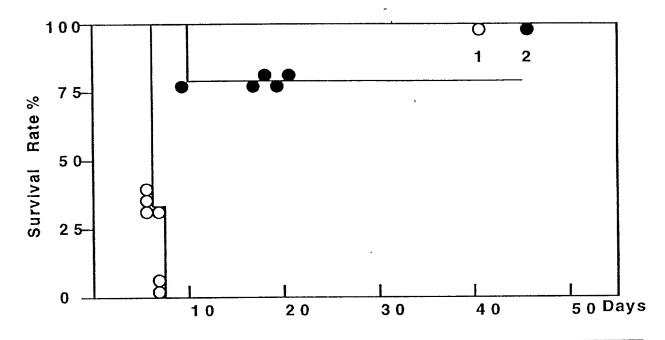
5 4.5				
111111111111111111111111111111111111111	Groups	Survival Days	MST ± SD	p value
# <u>.</u>	Control	7, 7, 7, 7, 8, 8	7,3 ± 0.5	
2	DPBA 0.65mg/kg x 16 days	13, 16, 21 >40, >40, >16	>26.1 ± 13	0.006
3	DPBA 1.0mg/kg x 4 days, then 0.5mg/kg x 12 days	20, 29,>40 >16, >16 >16	>22.8 ± 9.8	0.008



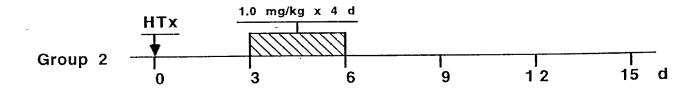
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TITLE USE OF PROTEASOME INHIBITORS FOR TREATING CANCER,
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Attorney Name: Gregory A. Sebald
Phone No. 613 236 4779

Phone No 612-336-4728

Proteasome Inhibitor DPBA is Effective in Treating Ongoing Heart Allograft Rejection in Mice



	Groups	Survival Days	MST ± SD	p value
1	Control	7, 7, 7, 7, 8, 8	7,3 ± 0.5	_
2	DPBA 1.0mg/kg/day i.p. x 4 days	10,>14,>14 >14, >14,	>13.2 ± 1.78	0.0001



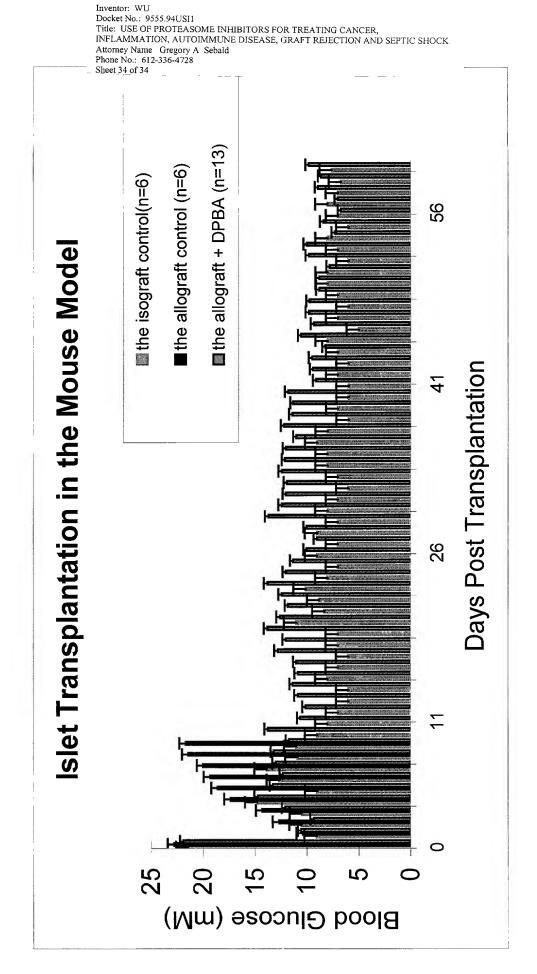


Figure 31